

AMENDMENT TO THE CLAIMS

Please cancel claim 41 without prejudice or disclaimer of the subject matter recited therein. Applicant expressly reserves the right to file one or more divisional applications directed to the subject matter of claim 41;

Please amend claims 1, 4, 6, 20, 21, 26 and 40; and

Please add new claims 42 as follows:

This listing of claims will replace all prior versions of claims in the application.

1. (Currently Amended) A shaped charge and projectile combination including:
a projectile;
a shaped charge of high explosive material including a cavity in an external face of the shaped charge, the shaped charge being shaped to axially concentrate explosive upon detonation of the shaped charge towards the projectile; and
a metal liner between the shaped charge and the projectile, ~~to form the metal liner forming~~ a jet of liner material on detonation of the shaped charge to impact ~~the~~ a rear of the projectile and propel the projectile.
2. (Original) A shaped charge and projectile combination as claimed in claim 1 wherein the shaped charge is housed in a casing forming a cartridge.
3. (Original) A shaped charge and projectile combination as claimed in claim 2 wherein the projectile is retained within the cavity in the shaped charge.
4. (Currently Amended) A shaped charge and projectile combination as claimed in claim 1 wherein the projectile has a ballistic shape with a front end ~~and a rear end~~ and wherein at least the rear end includes a layer of temperature resistant material.

5. (Original) A shaped charge and projectile combination as claimed in claim 4 wherein the temperature resistant material is one of the group of carbon, titanium, tungsten, ceramics, steel, uranium or depleted uranium.

6. (Currently Amended) A shaped charge and projectile combination as claimed in claim 1 wherein the projectile includes an aperture facing the metal liner of the shaped charge.

7. (Previously Presented) A shape charge and projectile combination as claimed in claim 1 wherein the projectile includes stabilisation means.

8. (Withdrawn) A shaped charge and projectile in combination as claimed in claim 7 wherein the stabilisation means includes external wings or fins.

9. (Original) A shaped charge and projectile in combination as claimed in claim 7 wherein the stabilisation means includes dimples or grooves.

10. (Withdrawn) A shaped charge and projectile in combination as claimed in claim 7 wherein the stabilisation means includes means to interact with rifling on the inside of a barrel of a weapon.

11. (Previously Presented) A shaped charge and projectile combination as claimed in claim 1 wherein the projectile is a bullet.

12. (Withdrawn) A shaped charge and projectile combination as claimed in claim 1 wherein the projectile is a shell.

13. (Withdrawn) A shaped charge and projectile combination as claimed in claim 1 wherein the cavity in the shaped charge has a concave shape.

14. (Withdrawn) A shaped charge and projectile combination as claimed in claim 1 wherein the cavity in the shaped charge has an ovaloid shape.

15. (Previously Presented) A shaped charge and projectile combination as claimed in claim 1 wherein the cavity in the shaped charge has a cylindrical shape.

16. (Withdrawn) A shaped charge and projectile combination as claimed in claim 1 wherein the explosive of the shaped charge is arranged to be detonated by electrical ignition.

17. (Previously Presented) A shaped charge and projectile in combination as claimed in claim 1 wherein the explosive of the shaped charge is arranged to be detonated by a firing pin.

18. (Withdrawn) A shaped charge and projectile in combination as claimed in claim 1 wherein the explosive of the shaped charge is arranged to be detonated by laser ignition.

19. (Previously Presented) A shaped charge and projectile in combination as claimed in claim 1 wherein the projectile has a diameter which is less than the widest cross-section of the cavity in the shaped charge.

20. (Currently Amended) A shaped charge and projectile in combination as claimed in claim 1 wherein the metal liner is a ballistic disk.

21. (Currently Amended) A shaped charge and projectile in combination including:
a projectile;

a body of a high explosive material forming a shaped charge and including an internal cavity open to one end of the shaped charge, the shaped charge being structured and arranged to axially concentrate explosive force upon detonation of the shaped charge towards the a rear face of the projectile; and

a metal layer lining the an interior of the internal cavity in the shaped charge,

wherein, on detonation of the charge, the metal liner forms a jet of molten liner material that impacts the rear face of the projectile and propels the projectile.

22. (Original) A shaped charge and projectile combination as claimed in claim 21 wherein the shaped charge is housed in a casing forming a cartridge.

23. (Original) A shaped charge and projectile combination as claimed in claim 22 wherein the projectile is retained within the cavity in the shaped charge.

24. (Previously Presented) A shaped charge and projectile combination as claimed in claim 21 wherein the projectile has a ballistic shape with a front end and a rear end and wherein at least the rear end includes a layer of temperature resistant material.

25. (Original) A shaped charge and projectile combination as claimed in claim 24 wherein the temperature resistant material is one of the group of carbon, titanium, tungsten, ceramics, steel, uranium or depleted uranium.

26. (Currently Amended) A shaped charge and projectile combination as claimed in claim 21 wherein the projectile includes an aperture facing the metal liner of the shaped charge.

27. (Previously Presented) A shaped charge and projectile combination as claimed in claim 21 wherein the projectile includes stabilisation means.

28. (Withdrawn) A shaped charge and projectile in combination as claimed in claim 27 wherein the stabilisation means includes external wings or fins.

29. (Original) A shaped charge and projectile in combination as claimed in claim 27 wherein the stabilisation means includes dimples or grooves.

30. (Withdrawn) A shaped charge and projectile in combination as claimed in claim 27 wherein the stabilisation means includes means to interact with rifling on the inside of a barrel of a weapon.

31. (Previously Presented) A shaped charge and projectile combination as claimed in claim 21 wherein the projectile is a bullet.

32. (Withdrawn) A shaped charge and projectile combination as claimed in claim 21 wherein the projectile is a shell.

33. (Withdrawn) A shaped charge and projectile combination as claimed in claim 21 wherein the cavity in the shaped charge has a concave shape.

34. (Withdrawn) A shaped charge and projectile combination as claimed in claim 21 wherein the cavity in the shaped charge has an ovaloid shape.

35. (Previously Presented) A shaped charge and projectile combination as claimed in claim 21 wherein the cavity in the shaped charge has a cylindrical shape.

36. (Withdrawn) A shaped charge and projectile combination as claimed in claim 21 wherein the explosive of the shaped charge is arranged to be detonated by electrical ignition.

37. (Previously Presented) A shaped charge and projectile in combination as claimed in claim 21 wherein the explosive of the shaped charge is arranged to be detonated by a firing pin.

38. (Withdrawn) A shaped charge and projectile in combination as claimed in claim 21 wherein the explosive of the shaped charge is arranged to be detonated by laser ignition.

39. (Previously Presented) A shaped charge and projectile in combination as claimed in claim 21 wherein the projectile has a diameter which is less than the widest cross-section of the cavity in the shaped charge.

40. (Currently Amended) A shaped charge and projectile in combination as claimed in claim 21 wherein the metal liner is a ballistic disk.

Claim 41. (Canceled).

42. (New) A shaped charge and projectile combination including:
a projectile having a rear end of temperature resistant material;
a shaped charge of high explosive material shaped to concentrate explosive towards the projectile upon detonation of the shaped charge; and
a metal liner disposed between the shaped charge and the projectile,
wherein, on detonation of the shaped charge, the metal liner forms a jet of molten liner material that impacts the rear end of the projectile and propels the projectile.